



BE SUCCESSFULL

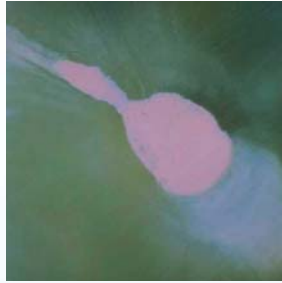
IRRI **SAFE**
Success in Endodontics guaranteed



Passive ultrasonic irrigation per
of a thoroughly and completely



Obturation without ultrasonic



Obturation after Irrisafe

All current publications demonstrate evidence of the efficacy of Passive Ultrasonic Irrigation (PUI), now considered as the best protocol for the cleaning and disinfection of the root canal. Modern Root Canal therapy protocols integrates the final irrigation with a disinfectant solution and a chelating agent activated by ultrasonics, as a mandatory sequence and a guarantee of the treatment success.

PROTOCOL

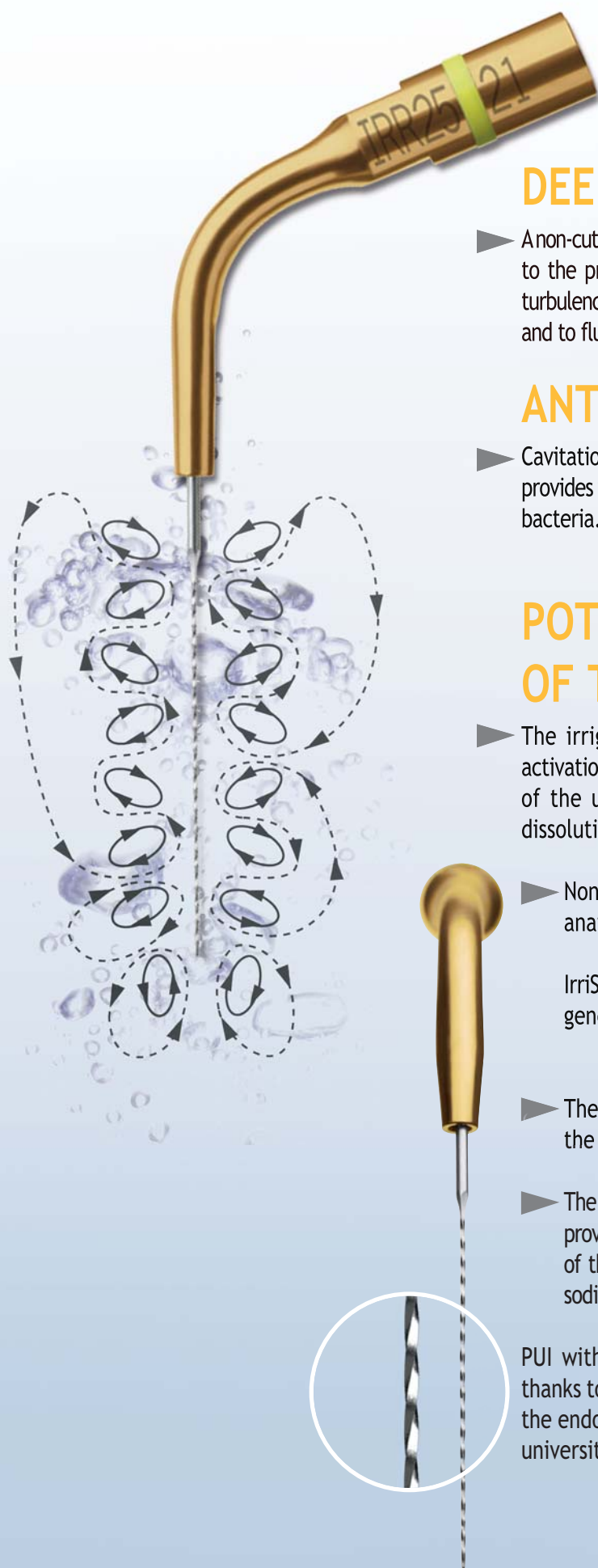
- The thinnest diameter is recommended for the majority of the clinical cases (IRR 20), the largest instrument can be used for the treatment of juvenile canals (IRR 25).
- The instrument should vibrate freely inside the root canal lumen. Irrisafe is available in two lengths, you can choose from IRR20/21 or IRR20/25 and, IRR25/21 or IRR25/25.
- Irrisafe is inserted 2 mm short of the working-length and it can be pre-shaped, if necessary.
- 20 ml of the irrigant solution is injected into the canal with a syringe. Irrisafe is activated for **10 seconds**, at the recommended color coded power level moving the instrument with a ¼-pull-stroke and backwards: it drives the debris and the smear layer back to the surface.
- **Refresh the irrigant 3 times and repeat the process** in each root canal.

Its exclusive design helps to remove the smear-layer and to kill the bacteria, even in difficult-to-reach areas (apical third) or in curved canals. It can be used safely, without any risk of damaging the apical structure.

Driven by the Newtron® range of piezoelectric generators, Irrisafe generates micro-cavitation and micro-currents that spread through the canal system. It is the **best instrument for the passive ultrasonic irrigation currently available**.

Combined with sodium hypochlorite and E.D.T.A., Irrisafe guarantees a better prognosis for the non-surgical endodontic treatments.

formed with IrriSafe provides the guarantee
disinfected root canal system



DEEP CLEANING

- ▶ A non-cutting fluted design and a blunt working-end prevent any damage to the prepared root canal walls and at the same time, generate turbulences that help to detach the biofilm from the root canal walls and to flush away the debris.

ANTIBACTERIAL EFFECT

- ▶ Cavitation occurs with hydrodynamic micro-currents and not only provides with a bacteriostatic effect, but it eradicates the planktonic bacteria. Ultrasonics disinfect the whole root canal system.

POTENTIALISATION OF THE IRRIGATION

- ▶ The irrigant effect is amplified not only by the mechanical activation provided by the vibration, but also by the heating effect of the ultrasonics, that intensifies the sodium hypochlorite dissolution and debridement properties.

- ▶ Non-cutting edges to prevent any damage to the root canal anatomy.

IrriSafe is more efficient than smooth wires, because its loops generate turbulences and optimize the irrigant activation.

- ▶ The blunt-end prevents any perforation to the apex or to the canal walls.

- ▶ The special steel benefits from a specific surface treatment that provides the instrument with a better resistance and transmission of the ultrasonic vibrations and a complete compatibility with sodium hypochlorite, versus nickel-titanium ultrasonic wires.

PUI with Irrisafe is a fast, simple and reproducible process, thanks to the IrriSafe™, an instrument specifically developed for the endodontic irrigation by SATELEC® R&D, in partnership with universities.

POWER SETTINGS

IRRISAFE	P-MAX NEWTRON XS P5 NEWTRON XS		P5 NEWTRON		P5 BOOSTER		P-MAX NEWTRON PROPHYMAX NEWTRON	
	Min	Maxi	Min	Maxi	Min	Maxi	Min	Maxi
	6	7	6	7	4	7	4	7

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Picture taken with a high speed camera. Dr. Fridus van der Weijden (ACTA, The Netherlands), in *The Power of Ultrasonics*. © Quintessence France 2007